Bedienungsanleitung Operating Instructions

English

Grundig SAT Systems

Digital Satellite Recorder

PRS 1080 CI

CE

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Contents

Index 4

1 General information 5

1.1 Package contents 5
1.2 Accessories for satellite receivers 5
1.3 Digital satellite reception 5
1.4 Special features of your digital recorder 5
1.5 The common interface 6

2 Set-up and safety 6

3 Your device at a glance 7

3.1 The digital recorder 7
3.2 The SAT mouse 8
3.3 The remote control 8

4 Connecting the device 10

4.1 Connecting the satellite antenna 11
4.2 Connecting the television 11
4.3 Connecting the AV recorder/player 11
4.4 Connecting the SAT mouse 11
4.5 Connecting the hifi system 12
4.6 Connecting the digital multi-channel amplifier (SPDIF) 12
4.7 Connecting the mains adapter 12

5 Preparations 13

5.1 Switching the recorder on and off 13
5.2 General menu information 13
5.3 Setting the menu language 14
5.4 Setting the local time 14
5.5 Adjusting the digital recorder to the television set 15
Setting the video signal for the Euro-AV output 15
Setting the screen format for the television 15
Automatic picture format identification 16
Setting the teletext style 16
Cinch audio output level 16
5.6 Adjusting the digital recorder to the satellite antenna 17
5.7 Reception of signals from encoded satellite channels 19

6 Editing channel lists 20

6.1 Creating lists of favourites 20
6.2 Deleting channels 21
6.3 Moving channels 21
6.4 Locking channels 21
6.5 Undoing the channel lock 22

7 Basic functions 22
7.1 Adjusting the volume 22
7.2 Muting 22
7.3 Selecting channels – numerical preset channel selection 22
7.4 Preset AV channel 23
7.5 Selecting channels from the TV/radio channel lists 23
7.6 Selecting channels from the list 23
7.7 Alphanumerical program selection – entering letters 23
7.8 Selecting locked channels 24
7.9 Zapping function 24
7.10 Selecting the audio channel 24
7.11 Teletext 25

8 Updating the channel list 26

9 Electronic programme guide (EPG) 28
9.1 Displaying programme information 28
9.2 Entering programmes in the recording timer 28

10 Timer functions 29
10.1 Entering the switch-off time for the sleep timer 29
10.2 Automatically setting the timer 29
10.3 Manually setting the timer 29
10.4 Setting (lead time / follow-up time) options 31
10.5 Ending the active timer 31
10.6 Deleting a timer position 31

11 Recording / playback functions 32
11.1 Recording 32
11.2 Playback 33
11.3 Information on current operation 34
11.4 Editing the "Archives" 35
11.5 Deleting a recording 36

12 Special functions 36
12.1 Hotel mode 36
12.2 Changing the password 37
12.3 Restoring the factory settings 38
12.4 Updating software 38
12.5 Deleting channel lists 39

13 Information 40
13.1 Displaying information on reception of channels 40
13.2 Querying device information 40
13.3 Technical data 41
13.4 Warranty 41
13.5 Troubleshooting 42

ENGLISH

Index

A

Application of data 29
Archives 8

B

Backward 31
Batteries 9
Batteries low 9
Beginning of the recording.. 30
Blocking channels 21
Blocking the menu 36

C

Change channel name 18
Channel lists 20, 39
Cinch output level 16
CI module 19
Cinch sockets 16
Common interface 6, 7
Condition on delivery 38
CVBS 15

D

Degree of longitude 14
Deleting channel lists 39
Device information 40
DVB receivers 6

E

Electronic programme guide 28
Encoded channels 19
End of the recording 30
Entering letters 23
Environmental note 6
EPG 28
Euro-AV 15
Euro-AV cable 11

F

F-connector 11
Fast forward 34
Fast rewind 34
Frequency 27

G

GMT 14

I

Information on reception 40
inset picture 33

L

Language 14
Large screen 33
Lead time 31
Limiting the volume 37
Lists of favourites 20
LNB power supply 17
Local time 14

M

Main menu 13
Mains adapter 12
Main menu 20
Menu information 13
Menu language 14
Moving channels 21
Multi-channel amplifier 12
Multi-channel sound 22

O

Operating software 38
Optical connection 7

P

Pause 8
Picture quality 15
PIN 21, 36
Playback 8, 33
Polarisation 27
Power consumption 6
Preset AV channel 23

R

Radio station 27
Range of accessories 5
Remote control 8
Remote control level 9
Removing the menu block 37
RGB 15

S

Satellite antenna 11
Satellite antennas 17
Satellites 18
SAT mouse 8, 11
Scart cable 5
Screen format 15
Sleep timer 29
Smartcard 19
Software update 38
Station search 27
Stereo sound 22
Summer time 14
System settings 15

T

Teletext 16, 25
Time 14
Time difference 14
Timer 31
Timer functions 29
Timer setting 29
Time shift 32
Time shift recording 33
Transponder data 27

U

Update 38

V

Volume 22

W

Winter time 14
WSS 16

Y

YUV 15

Z

Zapping 24

1 General information

1.1 Package contents

- PRS 1080 CI with 80 Gbyte hard disk
- SAT mouse (infrared receiver)
- Remote control incl. 2 batteries (2 x 1.5 V, Mignon, e.g. UM-3 or AA)
- Euro-AV cable (scart cable)
- Mains adapter
- Operating instructions

1.2 Accessories for satellite receivers

You can find out more about the extensive GSS range of accessories for satellite receiving devices at your specialist dealer or at the website of
Grundig SAT Systems GmbH: **http://www.gss.tv**.

1.3 Digital satellite reception

To use this device you need a satellite receiving device that must be prepared for receiving digital signals. Unlike analogue satellite broadcasting, digital TV or radio channels are not all assigned their own frequencies; instead, several TV and/or radio channels are transmitted by a single transponder using the same frequency.
To help you with the choice and settings for satellite stations, a selection of TV and radio stations have already been programmed for this device. You can use the channel search to find new satellite channels that are not yet in the channel list of your device.
You can also compile your favourite channels and store them in four separate channel lists.

1.4 Special features of your digital recorder

This digital recorder can receive and record free satellite channels as well as certain encoded digital satellite channels via common interface.
To ensure that your digital recorder always uses the latest software, we recommend that you update the operating software (see page 38).
The electronic programme guide provides an overview of all the stations' programmes for the next few hours. You can call up detailed information on each TV programme at the touch of a button.
This digital recorder has a comprehensive, easy-to-use menu system. It is displayed on the television screen and the functions of the remote control buttons are explained. In addition to the receiver unit, the digital recorder also has a hard disk with a capacity of 80 Gbyte.
The technology used enables the simultaneous recording of a SAT programme and playback of a recorded programme. This procedure is used for the time shift (time-delayed television).

1.5 The common interface

Common interface (CI) is the interface for DVB receivers (digital recorders, set top boxes etc.) for decoding encoded channels. The smart card required for decoding is available at the broadcasting station. This device has a common interface (CI) slot for this smart card and the corresponding CI module.

2 Set-up and safety

- This digital recorder set is designed to receive and display video and audio signals. Any other use is expressly prohibited.
- When setting up the device, make sure the mains socket is easily accessible.
- If the digital recorder is subject to a sudden change in temperature, for example when brought in from the cold to a warm room, let it stand for at least two hours before you connect it to the mains supply.
- Do not expose the digital recorder to any moisture. The digital recorder is designed for use in dry rooms. If you do use it outdoors, please ensure that it is protected from moisture, such as rain or splashing water.
- Make sure that the digital recorder is ventilated adequately.
- Do not use the device close to heating units or in direct sunlight.
- Place the device on a flat, solid surface for use.
- If placed in a cabinet, make sure there is a minimum space of approx. 10 cm around it!
- Thunderstorms are a danger to all electrical devices. Even if the device is switched off, it can be damaged by a stroke of lightning to the mains or the antenna cable. Therefore always disconnect the device from the mains and from the antenna unit during a thunderstorm.
- Never open the device under any circumstances. No liability is accepted for any damage caused by incorrect handling.

Environmental note

If you do not intend to use the digital recorder for some time (for example at night), we recommend that you switch it with ⏻ to stand by. Power consumption is reduced to approx. 0.5 Watts.

3 Your device at a glance

3.1 The digital recorder

CI MODULE	Common interface slot.
INPUT SAT	Antenna socket for the satellite antenna.
12-24 V DC	Socket for the supplied mains adapter.

RECORDER **TV**	Euro AV socket (input and output) for the video or DVD recorder Euro AV (output) socket for the television.
DIGITAL AUDIO OUT	Optical connection for digitally encoded audio signals to the digital multi-channel amplifier (SPDIF).
AUDIO OUT R L	Left/right stereo output sockets (cinch) for the hifi system.
SOFTWARE/MOUSE	Socket for SAT mouse or for a PC cable.

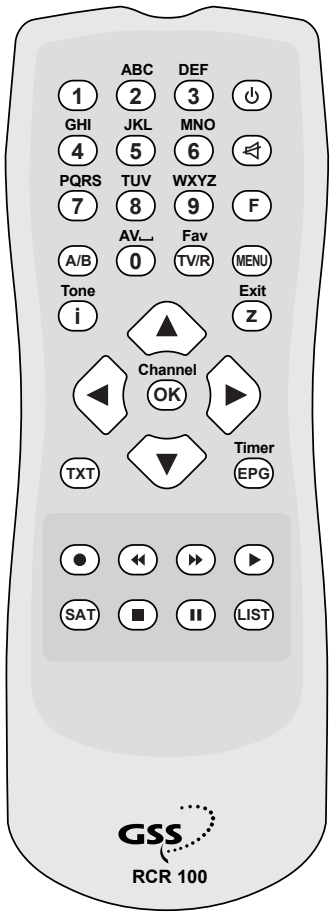
3.2 The SAT mouse

The SAT mouse receives the infrared signals for the remote control and forwards the commands via cable to the recorder.

- Position the SAT mouse visibly so that it can receive the commands by the remote control.

Note:
– The red operation indicator goes out in standby mode.
– The operation indicator flashes if a recording timer has been set and the recorder is in standby mode, and during recording.

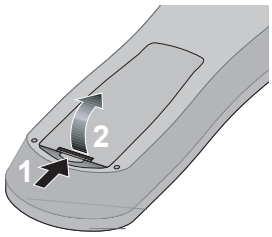
3.3 The remote control

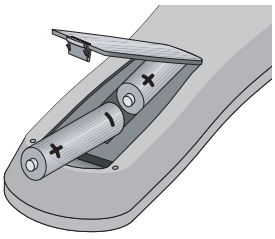


⏻	Switches to standby, and from standby to the channel last selected.
1 ... 0	Select channels.
0	AV mode Switches between digital recorder mode and the audio and video signals from the device connected to the **"RECORDER"** socket.
🔇	Switches the sound to mute and back on again.
TV/R	Switches between radio mode and the channel lists and lists of favourites.
MENU	Opens the main menu, ends settings.
i	Displays channel information.
Z	Zapping function. In menu mode: returns to the previous menu.
A/B	Switches between audio channels A, B and stereo.
◀▶	Changes the volume, controls the cursor in the menus.
▲▼	Switches channels up and down one by one, selects menu items.
OK	Opens the channel list, confirms entries.
TXT	Opens teletext.
EPG	Opens the electronic programme guide.
SAT	Switches to remote control level SAT 2.
⏸	Time shift recording, Pause, Freeze frame.
●	Record, deletes entries in the menus.
◀◀	Fast rewind, moves entries in the menus.
▶▶	Fast forward, opens the text editor in the Archives.
▶	Playback, opens sub-menus.
■	Stop.
LIST	Displays and hides "**Archives**".

Inserting batteries in the remote control

- Open the battery compartment and remove the lid.
- Insert the batteries (Mignon, e.g. UM-3 or AA, 2 x 1.5 V). Observe the polarity marked in the battery compartment base.
- Close the battery compartment.





Notes:

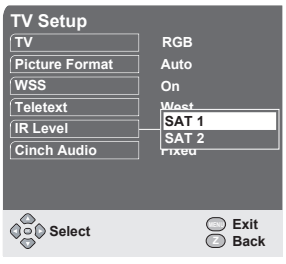
– If the digital recorder no longer reacts properly to remote control commands or if the message "**Low Battery!**" appears, we recommend that the batteries are changed.
– **Always remove used batteries.**
The manufacturer accepts no liability for damage resulting from leaking batteries.
– The first time you use the digital recorder after changing batteries, the message "**Low Battery!**" appears. Ignore this message.

Environmental note

Do not throw away used batteries with your normal household waste. Instead take them to a battery collection box in a shop or a public collection point.

Selecting remote control level SAT 1 or SAT 2

If you wish to use an RCR 100 remote control to operate two PRS 1080 CI digital recorders, you must select a different remote control level for one of the two digital recorders.



- Connect the device and switch it on (see chapters 4 and 5, pages 10 … 19).
- Press **MENU** to open the main menu.
- Use ▼/▲ in the main menu to select "**System Setup**" and press **OK** to confirm.
- Use ▼/▲ to activate "**TV Setup**" and press **OK** to confirm.
- Select "**IR Level**" with ▼/▲ and press **OK** to confirm.
- Use ▼/▲ to select remote control level "**SAT 1**" or "**SAT 2**" and press **OK** to confirm.
  – If you wish to use the digital recorder with remote control level "**SAT 2**" press and hold the button **SAT** and at the same time press the desired function button on the remote control.

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Switching the remote control to SAT 2 level

You can switch the remote control permanently to the SAT 2 remote control level.

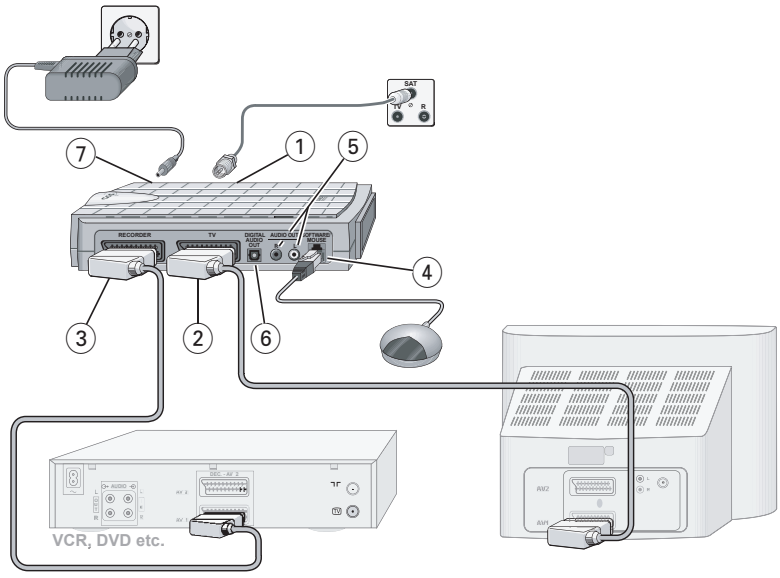
- Press the button **SAT** and hold.
- At the same time press the buttons **4**, **5**, **6**.

To return to SAT 1 remote control level

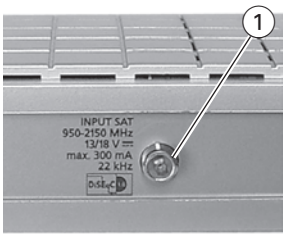
- Press the button **SAT** and hold.
- At the same time press the buttons **1**, **2**, **3**.
- To finish your setting: press **MENU**.

4 Connecting the device

Overview

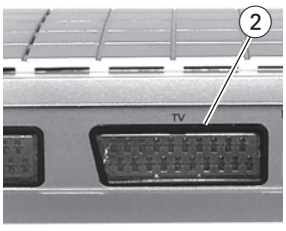


4.1 Connecting the satellite antenna



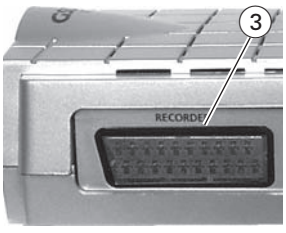
- Connect the antenna cable to the **INPUT SAT** (1) socket on the digital recorder (screw connector, F-connector).

4.2 Connecting the television



- Plug the Euro-AV cable into the **TV** (2) socket on the digital recorder and into the corresponding Euro-AV socket on the television.

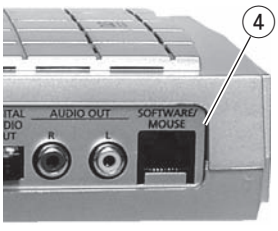
4.3 Connecting the AV recorder/player



- Plug the commercial Euro-AV cable into the **RECORDER** (3) socket on the digital recorder and into the Euro-AV socket on the AV recorder/player (e.g. video or DVD recorder).

Note:
To view a video or DVD recording, switch on the digital recorder and press the **0** button to select AV mode.

4.4 Connecting the SAT mouse



- Insert the plug of the SAT mouse into the **SOFTWARE/ MOUSE** (4) socket.

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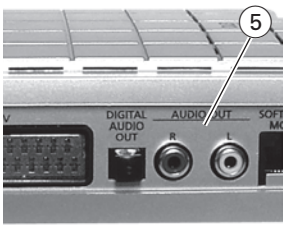
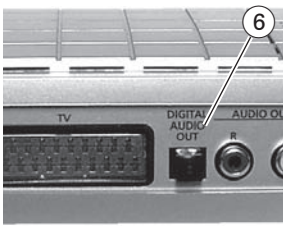
4.5 Connecting the hifi system



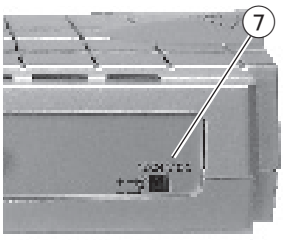
- Plug a commercial cinch cable into the **AUDIO OUT R L** (right/left) (5) sockets on the digital recorder and the corresponding input sockets on the hifi system.

4.6 Connecting the digital multi-channel amplifier (SPDIF)



- Remove the socket cover.
- Plug a commercial optical cable (SPDIF) into the **DIGITAL AUDIO OUT** (6) socket on the digital recorder and the corresponding socket on the digital multi-channel amplifier.

4.7 Connecting the mains adapter



- Plug the jack plug of the supplied mains adapter into the **12-24 V DC** (7) socket on the digital recorder.
- Plug the mains adapter into the socket.

5 Preparations

Note

Your digital recorder was set at the factory so that it is ready for operation once you have connected it and to receive Astra channels. If required, you only need to correct the local time difference, adjust the LNB settings for receiving more satellites and select the menu language

Default is: Language: "**German**", LNB settings: "**Single LNB**").

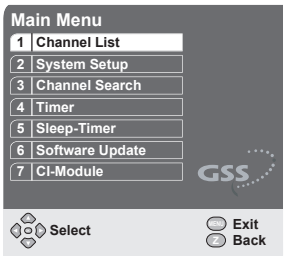
5.1 Switching the recorder on and off

- Switch the television to AV.
- Press ⏻ on stand by to switch on the digital recorder (operation indicator lights up red) or to switch it to stand by (operation indicator goes out).
  – If a recording timer has been set, the operation indicator flashes.

Note:

The only way to disconnect the digital recorder from the mains supply is to unplug the mains adapter.

5.2 General menu information



– This device has a comprehensive, easy-to-use menu system. The menus are displayed on the television screen.
– The digital recorder responds to many functions that you can select on the remote control with informative menus and icons on the screen. It enables you to select many different settings and it contains information on using your digital recorder.
– The buttons on the remote control for using the menu are explained in the menus.
– The main menu contains the most important controls for your digital recorder. The menu system controls the dialogue between you and the digital recorder.
– Press the **MENU** button on the remote control and press ▼/▲ to select the desired menu item. It is displayed on a light background.
– Press **OK** to confirm your selection. Use ▼/▲ in the corresponding sub-menu that is now displayed to select the desired menu item. It is displayed on a light background.
– Press **OK** to confirm your selection. Normally another menu then appears. There you can press ▼/▲ to select the desired menu item.
– You can also select the numbered menu items directly using the numerical buttons **1 ... 0**.

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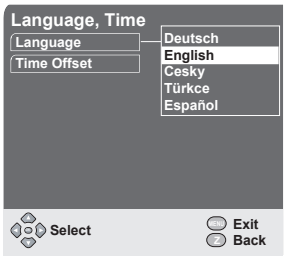
– The ◀/▶ buttons are control buttons.
– On closing the menu function, your settings are automatically saved.
– You return to the previous menu via **Z**.
– To close the menu function press **MENU**.

Note:

In menu mode, you cannot press ⏻ to switch the digital recorder to standby.

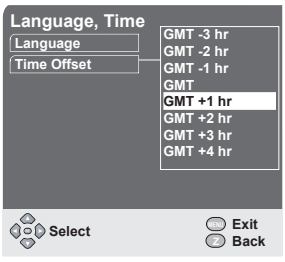
5.3 Setting the menu language



- Press **MENU** to open the main menu.
- Select "**System Setup**" with ▼/▲ and press **OK** to confirm.
- Select "**Language, Time**" with ▼/▲ and press **OK** to confirm.
- Open "**Language**" with "**OK**".
- Use ▼/▲ to select the desired language and press **OK** to confirm.
- To return to the previous menu: press the **Z** button.
- To finish your setting: press **MENU**.

5.4 Setting the local time

To ensure that the electronic programme guide always shows the current programmes at the right time, you must enter the difference between your local time and GMT (Greenwich Mean Time, degree of longitude "0"). All times given by the electronic programme guide are then adapted to your local time.



- Press "**MENU**" to open the main menu.
- Select "**System Setup**" with ▼/▲ and press **OK** to confirm.
- Select "**Language, Time**" with ▼/▲ and press **OK** to confirm.
- Select "**Time Offset**" with ▼/▲ and press **OK** to confirm.
- Use ▼/▲ to change the time difference in one-hour steps.

Note:

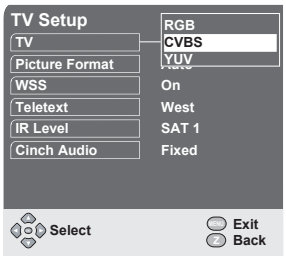
For Germany: GMT + 1 hour.
"Summer time/winter time" conversion is carried out automatically.

- Confirm the setting: press **OK**.
- To return to the previous menu: press the **Z** button.
- To finish your setting: press **MENU**.

5.5 Adjusting the digital recorder to the television set

Setting the video signal for the Euro-AV output

You can choose between the settings "**CVBS**" (normal picture quality, factory setting), "**RGB**" (high picture quality) and "**YUV**" (e.g. for a connected beamer or LCD TV set).

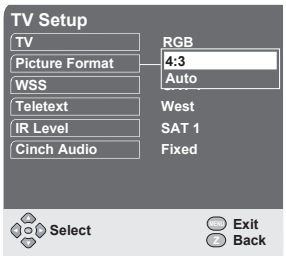


- Select "**System Setup**" in the main menu with ▼/▲ and press **OK** to confirm.
- Select "**TV Setup**" with ▼/▲ and press **OK** to confirm.
- Select "**TV**" with ▼/▲ and then press **OK** to confirm.
- Use ▼/▲ to select "**RGB**", "**CVBS**" or "**YUV**" and press **OK** to confirm.

  Note:
  For the setting "**RGB**" and "**YUV**" the TV set has to be prepared appropriately.
- To return to the previous menu: press the **Z** button.
- To finish your setting: press **MENU**.

Setting the screen format for the television

If you have a "standard" 4:3 format television, select the "**4:3**" setting. If you have a 16:9 format screen, select the "**Auto**" setting.



- Select "**System Setup**" in the main menu with ▼/▲ and press **OK** to confirm.
- Select "**TV Setup**" with ▼/▲ and press **OK** to confirm.
- Select "**Picture Format**" with ▼/▲ and then press **OK** to confirm.
- Use ▼/▲ to select the desired screen format and press **OK** to confirm.
- To return to the previous menu: press the **Z** button.
- To finish your setting: press **MENU**.

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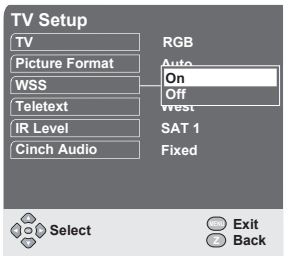
Automatic picture format identification

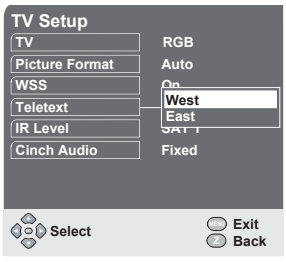
If problems with the automatic picture format switchover (e.g. 4:3, 16:9, Letterbox) arise with the connected device, you can switch off Wide-Screen-Signaling (WSS) in this menu.



- Use ▼/▲ in the main menu to select "**System Setup**" and press **OK** to confirm.
- Select "**TV Setup**" with ▼/▲ and press **OK** to confirm.
- Use ▼/▲ to select "**WSS**" and press **OK** to confirm.
- Use ▼/▲ to switch WSS on/off.
- To return to the previous menu: press the **Z** button.
- To finish your setting: press **MENU**.

Setting the teletext style

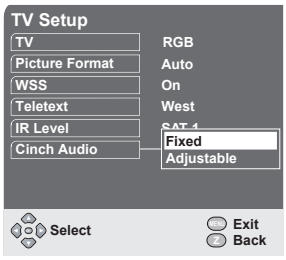
This menu is for setting the parameters required to display West European or Slavic characters.



- Use ▼/▲ in the main menu to select "**System Setup**" and press **OK** to confirm.
- Select "**TV Setup**" with ▼/▲ and press **OK** to confirm.
- Use ▼/▲ to select "**Teletext**" and press **OK** to confirm.
- Use ▼/▲ e.g. for Germany to select "**West**" and press **OK** to confirm.
- To return to the previous menu: press the **Z** button.
- To finish your setting: press **MENU**.

Cinch audio output level

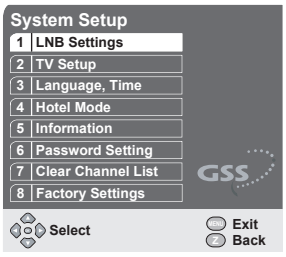
This menu is for determining whether the cinch socket output level is to be controlled via remote control or fixed.



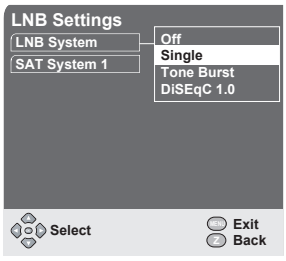
- Use ▼/▲ in the main menu to select "**System Setup**" and press **OK** to confirm.
- Select "**TV Setup**" with ▼/▲ and press **OK**.
- Use ▼/▲ to select "**Cinch Audio**" and press **OK** to confirm.
- Use ▼/▲ to select "**Fixed**" or "**Adjustable**" and press **OK** to confirm.
- To return to the previous menu: press the **Z** button.
- To finish your setting: press **MENU**.

5.6 Adjusting the digital recorder to the satellite antenna

This digital recorder was factory set so that it is ready for operation with most satellite antennas and LNB configurations. Changes in this menu have a direct effect on the reception characteristics of the digital recorder and should therefore only be made by an expert.



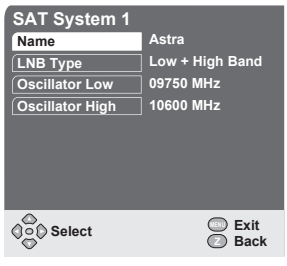
- Select "**System Setup**" in the main menu with ▼/▲ and press **OK** to confirm.
- Select "**LNB Settings**" in the "**System Setup**" menu with ▼/▲ and press **OK** to confirm.
  – The "**LNB Settings**" menu appears.



- Select "**LNB System**" in the "**LNB Settings**" menu with ▼/▲ and press **OK** to confirm.
  – The following is displayed in the sub-menu:
  "**Off**": For switching off the LNB power supply.
  "**Single**": A single satellite is used for reception.
  "**Tone Burst**": Signals from two satellites can be received.
  "**DiSEqC 1.0**": Signals can be received from up to 4 satellites.

Receiving signals from a single satellite

- Select "**LNB System**" in the "**LNB Settings**" menu with ▼/▲ and press **OK** to confirm.
- Use ▼/▲ to select "**Single**" and press **OK** to confirm.
- Select "**SAT System 1**" with ▼/▲ and press **OK** to confirm.
- Use ▼/▲ to select the menu item to be changed and press **OK** to confirm:



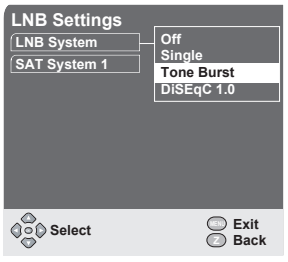
  – "**Name**" Change the satellite name.
    - Use ◀/▶ to place the cursor under the letter to be changed.
    - Use ▼/▲ to set letters.
    - Press **OK** to confirm.
  – "**LNB Type**"
    - Use ▼/▲ to select the LNB that is used.
    - Press **OK** to confirm.
  – "**Oscillator Low**"
    - Set the LNB oscillator frequency (Low band).
    - Use ◀/▶ to place the cursor under the number to be changed. —> Enter value with **1 ... 0**.
    - Press **OK** to confirm.
  – "**Oscillator High**"
    - Set the LNB oscillator frequency (High band).

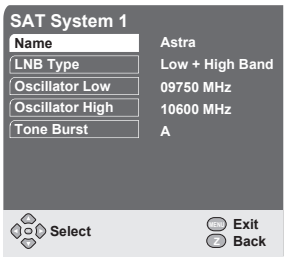
ENGLISH

- Use ◀/▶ to place the cursor under the number to be changed.
  —> Enter value with **1 ... 0**.

- Press **OK** to confirm.
- To return to the previous menu: press the **Z** button.
- To finish your setting: press **MENU**.

Receiving signals from two or more satellites





- Select "**LNB System**" in the "**LNB Settings**" menu with ▼/▲ and press **OK** to confirm.
- Use ▼/▲ to select "**Tone Burst**" for 2 satellites or "**DiSEqC 1.0**" for up to 4 satellites and press **OK** to confirm.
- Select "**SAT System 1**" with ▼/▲ and press **OK** to confirm.
- Use ▼/▲ to select the item to be changed and press **OK** to confirm:

– "**Name**" Change satellite name.
- Use ◀/▶ to place the cursor under the letter to be changed.
- Use ▼/▲ to set letters.
- Press **OK** to confirm.

– "**LNB Type**"
- Use ▼/▲ to select the LNB that is used.
- Press **OK** to confirm.

– "**Oscillator Low**"
- Set the oscillator frequency (Low band).
- Use ◀/▶ to place the cursor under the number to be changed.
  —> Enter value with **1 ... 0**.
- Press **OK** to confirm.

– "**Oscillator High**"
- Set the oscillator frequency (High band).
- Use ◀/▶ to place the cursor under the number to be changed.
  —> Enter value with **1 ... 0**.
- Press **OK** to confirm.

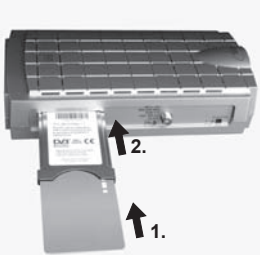
– "**Tone Burst**" or "**DiSEqC**"
- Use ▼/▲ to assign the LNB to the input for the Tone Burst (A/B) or DiSEqC switch (A ... D).
- Press **OK** to confirm.

- Repeat the setting for all satellites "**SAT System 2**" etc.
- To return to the previous menu: press the **Z** button.
- To finish your setting: press **MENU**.

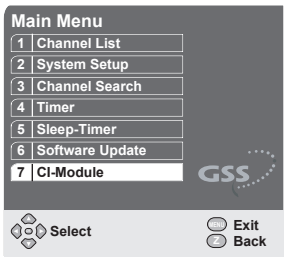
5.7 Reception of signals from encoded satellite channels

This digital recorder has a common interface (CI) slot. It allows you to connect a CI module for various encryption systems and broadcasting stations. Encoded channels can only be viewed with a CI module suitable for the encoding system and the corresponding smart card. The smart card has all the functions for authorization, decoding and subscription.

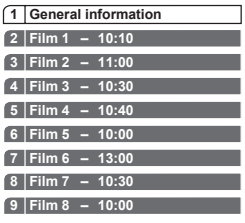
Note:
Follow the operating instructions of the corresponding manufacturer for the CI module.



- Insert the smart card into the CI module in such a way that the chip on the smart card faces the thicker side (top) of the CI module (1.).
- Rotate CI module with inserted smart card 180° around the longitudinal axis (bottom facing upwards, see illustration opposite).
- Insert the CI module with the bottom facing upwards into the common interface slot "**CI-MODULE**" (2.).



- Use ▼/▲ in the main menu to select "**CI-Module**" and press **OK** to confirm.
  - **A menu generated by the CI-module appears on the screen. For information on how to use the CI-module, see its operating instructions.**
- To return to the previous menu: press the **Z** button.
- To finish your setting: press **MENU**.



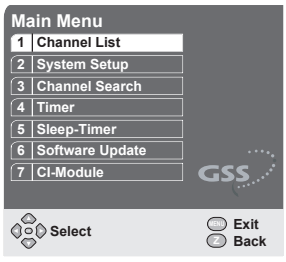
Note:
If "Camera" is displayed in a channel window, this means that sub-programmes are available.

- To open sub-programmes: press **OK**.
- Select the desired channel with ▼/▲ and ◄/► and press **OK** to open.

ENGLISH

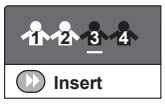
6 Editing channel lists

This menu is for changing the order of the preset **TV** and **RA** (Radio) channels as desired, deleting channels you do not need and locking channels. You can select your favourite channels and save them in four separate lists of favourites.



- Select "**Channel List**" in the "**Main Menu**" with ▼/▲ and press **OK** to confirm.
  – The TV Channel list appears.
- To change channel lists: press the **TV/R** button repeatedly.
  Channel List TV —> **Channel List RA** —>
  Channel List 1 —> **Channel List 2** —> **Channel List 3** —> **Channel List 4** —> **Channel List TV**.

6.1 Creating lists of favourites



- Select "**Channel List TV**" with **TV/R**.
- Select the channel to be entered into the list of favourites with ▼/▲ or ▼/▲ and ◄/► press the **(yellow)** button to open the "**List of favourites**" menu.
- Select the desired list of favourites with ◄/► and press **OK** to highlight in white the selection.

- To enter a channel in the list of favourites: press the **(yellow)** button.
  – The selected channel is stored in the list of favourites (white).
  – The next channel is automatically selected in the TV channel list.
- If you wish to enter the automatically selected channel in the list of favourites, press the **(yellow)** button, otherwise use ▼/▲ and ◄/► to select the channel to be moved and proceed as described above.

Notes:

– You can enter the selected **channels in several lists of favourites at the same time:**
  - Use ◄/► to place the cursor in succession under the icons to be activated from the lists of favourites and press **OK** each time to confirm.

– To deactivate an active list of favourites use ◄/► to place the cursor under the icon for this list and press **OK** to confirm.

6.2 Deleting channels

Note:
If a channel is deleted from a TV or radio channel (RA) list, it is also deleted from the list of favourites.
If a channel is deleted from one of the lists of favourites, the channels still remain in the TV / radio channel list.

- Select a channel list with **TV/R**.
- Select the channel to be deleted with ▼/▲ and press the **(red)** button to highlight it.
  – The channel entry is highlighted in red.
- If you wish, select any other channel with ▼/▲.
- To delete channels: press the **(red)** button again.
- Use ◀/▶ to select "**Yes**" in the security query that appears and press **OK** to confirm the "Delete channel" action.

6.3 Moving channels

- Select the desired channel list with **TV/R**.
- Select the channel to be moved with ▼/▲ and press the **(green)** button to highlight it.
- Any other channels are selected with ▼/▲.
- Press the **(green)** button to confirm the selected channels.
- Use ▼/▲ to select the channel **in front of** which the selected channel is to be inserted.
- To move channels: press the **(green)** button.
- Use ◀/▶ to select "**Yes**" in the security query that appears and press **OK** to confirm.
  – The highlighted channels are moved.
- To return to the previous menu: press the **Z** button.
- To finish your setting: press **MENU**.

6.4 Locking channels

This menu is for locking channels with a password that is valid for all protected channels.

- To open the desired channel list: press **TV/R**.
- Select the channel to be locked with ▼/▲ and press the **(blue)** button to confirm.
  – "**Input Password**" appears.
- Enter the password with **1 ... 0**.
  – The default password is "**0 0 0 0**".
  – Locked channels are marked with a key.
- Confirm the channel lock with **MENU**.

ENGLISH

6.5 Undoing the channel lock

- Select the locked channel in the channel list with **TV/R** and ▼/▲.
- Press the **(blue)** button – "**Input Password**" appears.
- Enter the password with **1 ... 0**.
- Confirm the "undo" channel lock action with **MENU**.

7 Basic functions

7.1 Adjusting the volume

Notes:

– You cannot adjust the volume in menu mode.
– The changes in volume refer to the level of the audio signals at the "**TV**" output socket of the recorder.

- Use ◀/▶ to set the volume.
  – A volume scale is displayed on the screen.

7.2 Muting

- Muting: press the button on the remote control.
- To end muting: press the button .

7.3 Selecting channels – numerical preset channel selection

- Enter single-digit or multi-digit preset channel numbers by pressing **1 ... 0** on the remote control.
- Switch preset channels up and down one by one: press ▼/▲ as often as required.
- To "scroll" quickly through preset channels: press ▼/▲ and hold as long as is necessary.

Note:

After each change of channel, a short screen text is displayed with the following information:

– Preset channel number
– Name of the channel
– Time
– Title and start time of the current programme and the following programme
– Information on the audio signal of the current channel:
Used symbols:

Digital multi-channel sound
Stereo sound / ○○ Dual sound / ○ Mono sound
1/2 For example, 2 languages are transmitted; language 1 is selected
eng The selected language is e.g. English

7.4 Preset AV channel

As soon as the set connected to the socket "**RECORDER**" is activated and provides a switching voltage the Digital Recorder switches to AV operation.

- To select a preset AV channel manually: press the **0** button.
  – The device switches to the external signal at the "**RECORDER**" input.
- To switch back to TV mode: press the **0** button again.

7.5 Selecting channels from the TV/radio channel lists

You can choose between the channel lists
– **TV** (TV channels),
– **RA** (radio channels) and
– 4 lists of favourites.
Lists of favourites without channels are not displayed.

- Select the desired channel list with **TV/R**.
- Use ▼/▲ and ◄/► to select a channel and press **OK** to open.

7.6 Selecting channels from the list

- Open the channel list with **OK**.
- Use ▼/▲ and ◄/► to select a channel and press **OK** to open.

7.7 Alphanumerical program selection – entering letters

You can select channels by entering their channel names. For this purpose the numbers **2 ... 9** on the remote control are assigned to groups of letters.

- Open the channel list with **OK**.
- Press **0** to activate the input of letters.
- Press **2 ... 9** to enter the first letter of the channel name (e.g. **9** for the letter **Z**, **3** for the letter **D** etc.).
  – A list of all the channels beginning with the letters W, X, Y or Z appears on the screen.
  – With each additional letter entered, the list of channels displayed is reduced.
- Select the desired channel with ▼/▲ and ◄/► and press **OK** to open it.

7.8 Selecting locked channels

If you select a locked channel, you will only see the channel name with a key symbol. By entering the password, you can activate locked channels until the next time the device is switched off (see also page 22, chapter "Undoing the channel lock").

- Use ▼/▲ or **1 ... 0** to select a preset channel.
  – "**Input Password**" appears.
  – If "**Input Password**" is not displayed, press **OK** to call the text message.
- Enter the password with **1 ... 0**.
  – All locked channels are activated until you switch the digital recorder off again.

7.9 Zapping function

This function allows you to save the channel you are currently watching and switch to and between this channel and other channels (zapping).

- To save a channel in the zapping memory: press **1 ... 0** or ▼/▲ to select the channel and save it with **Z**.
  – The channel name appears on the screen, e.g. "**TV 8**".
- Press **1 ... 0** or ▼/▲ to select a different channel.
- Press **Z** to switch to the saved channel and back to the channel last seen.
- Press **i** to finish your setting.

7.10 Selecting the audio channel

For channels broadcasting in several languages you can select a different language, the audio type and digital sound (AC 3), if provided. Digital sound is only available at the optical SPDIF output.

- Press **i**.
  – The channel information is displayed.
- Press **i** repeatedly to select the desired audio type:
  - Digital multi-channel sound (AC 3)
  - Stereo sound
  - Dual sound
  - Mono sound
  - **1/2** For example, 2 languages or audio channels are transmitted; language 1 is selected.
- Press **OK** to save your setting.

Note:

If a stereo transmission is faulty, the left stereo channel might transmit a different language than the right one.

- Use **A/B** to change stereo channels.

7.11 Teletext

Teletext is a service offered by some broadcasters that is provided along with the video and audio signals. These signals are converted by the digital recorder and can be displayed on the TV screen as teletext.

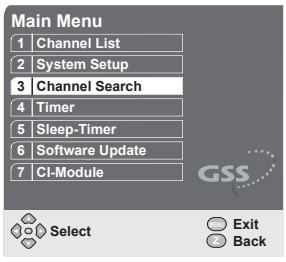
- Select the TV channel for which you wish to view teletext with **1 ... 0** or ▼/▲.
- To open teletext: press **TXT**.
  – Text page 100 appears on the screen.
- Enter the three-digit number of a text page with **1 ... 0** or use ▼/▲ to "scroll" between text pages.
- To close teletext: press **TXT**.

8 Updating the channel list

Preset channel lists

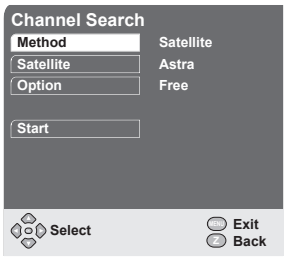
This digital recorder was programmed at the factory with most digital TV and RADIO channels on the Astra 19.2° East, EutelSat/Hotbird 13° East and Turksat 1C satellites. You can open the corresponding lists in the "**Channel List**" by pressing ◀/▶. Because there are new satellite channels every now and then or because satellite data is changed, it is advisable to occasionally start an automatic search on the digital recorder and update the channel lists.

Automatic channel search



During the automatic channel search, the selected satellite is scanned for new channels.

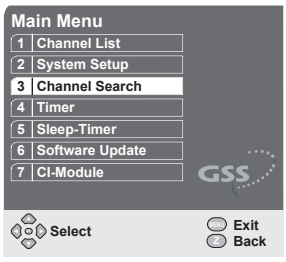
- Select "**Channel Search**" in the "**Main Menu**" with ▼/▲ and press **OK** to confirm.



- Select "**Method**" with ▼/▲ and press **OK** to confirm.
- In the menu use ▼/▲ to select "**Satellite**" and press **OK** to confirm.
- Use ▼/▲ to select "**Satellite**" and press **OK** to confirm.
- Use ▼/▲ to select the desired satellite and press **OK** to confirm.
- Select "**Option**" with ▼/▲ and press **OK** to confirm.
- Use ▼/▲ to set "**Free**" or "**All**" (encoded channels are also searched for) and press **OK** to confirm.
- Select "**Start**" with ▼/▲ and press **OK** to start the search.
  - The window on the left shows the current transponder settings and the number of TV channels (black) and radio channels (blue) found. The window on the right shows the channels last found and the channel number.
  - New TV or radio channels are added to the end of the channel list.
  - To cancel the search: press **OK** (reaction time approx. 3 seconds).

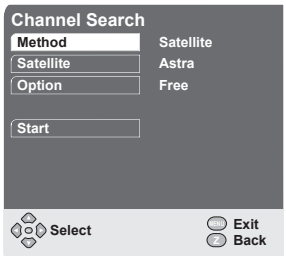
- To return to the previous menu: press the **Z** button.
- To finish your setting: press **MENU**.

Manual Channel search

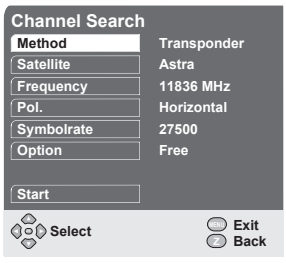


If the channel search does not automatically find a particular channel, you can set it using the manual search. To do so, enter all the parameters of the channel you are looking for. You can find the latest transponder data on the teletext pages of various broadcasters, in a new satellite TV magazine or on the Internet.

- Select "**Channel Search**" in the "**Main Menu**" with ▼/▲ and press **OK** to confirm.



- Select "**Method**" with ▼/▲ and press **OK** to confirm.
- In the menu use ▼/▲ to select "**Transponder**" and press **OK** to confirm.



- Use ▼/▲ to select the item to be set and press **OK** to confirm.
- Use ▼/▲ to set the parameters and press **OK** each time to confirm.
  If required, use ◄/► to place the cursor under the number to be set:
  – "**Satellite**": Satellite selection.
  – "**Frequency**": Enter the five-digit channel frequency with **1 ... 0**.
  – "**Pol.**": For setting the polarization of the channel ("**Horizontal**" or "**Vertical**").
  – "**Symbol rate**": Enter five-digit channel symbol rate with **1 ... 0**.
  – "**Option**": Set "**Free**" or "**All**" (encoded channels are also searched for).

- Select "**Start**" with ▼/▲ and press **OK** to start the search.
  – The new TV or radio channel is automatically added to the end of the channel list.

- To return to the previous menu: press the **Z** button.
- To finish your setting: press **MENU**.

ENGLISH

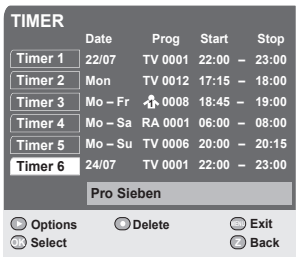
9 Electronic programme guide (EPG)

The electronic programme guide provides information on the current programme such as the title and a short description. You can also list the following programmes and call up the corresponding descriptions.

9.1 Displaying programme information

- To display information on the current programme: Press the **EPG** button.
- Press **EPG** again.
  – The first table with the following programmes is displayed.
- Use ◀/▶ to open other tables.
- Use ▼/▲ to select a programme.
- Press **OK** to call up information on the selected programme.
- To return to the table with today's programmes: press the **Z** button.

9.2 Entering programmes in the recording timer


TIMER
Date Prog Start Stop
Timer 1 22/07 TV 0001 22:00 – 23:00
Timer 2 Mon TV 0012 17:15 – 18:00
Timer 3 Mo – Fr 0008 18:45 – 19:00
Timer 4 Mo – Sa RA 0001 06:00 – 08:00
Timer 5 Mo – Su TV 0006 20:00 – 20:15
Timer 6 24/07 TV 0001 22:00 – 23:00
Pro Sieben
Options
Delete
Exit
Select
Back

- Press the **EPG** button twice.
- Select the programme with ▼/▲ ◀/▶.
- Press the **(green)** button.
  – The displayed programme is entered in the timer with all relevant data, such as date, start and finish times, channel name, information etc.
  – The "**TIMER**" menu is displayed (see also chapter "**Timer functions**", page 29).
- To close the electronic programme guide: press **MENU**.

10 Timer functions

Your digital recorder has a sleep timer for switching off your device at a defined time.
Furthermore your digital recorder has 30 timer positions that you can set manually or automatically by applying the data selected in the EPG.

10.1 Entering the switch-off time for the sleep timer

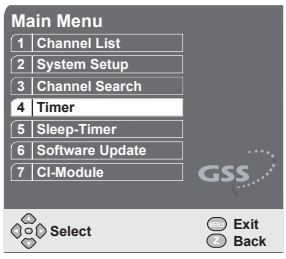
- Select "**Sleep-Timer**" in the "**Main Menu**" with ▼/▲ and press **OK** to confirm.
- Confirm "**Time**" with **OK**.
- Select the switch-off time in 30 minute steps (sleep timer "**OFF**", **30 … 240** minutes) with ▼/▲ and press **OK** to confirm.
- To finish your setting: press **MENU**.
  – The digital recorder switches to standby mode after the set time.

10.2 Automatically setting the timer

Data is adapted from the EPG for the automatic setting of the timer (chapter "**Electronic programme guide**", page 28). This data can be changed manually (chapter "**Manually setting the timer**").

10.3 Manually setting the timer

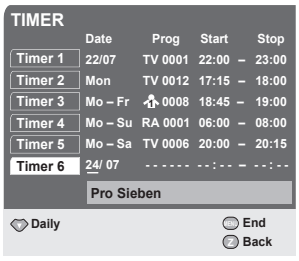
The manual timer setting enables you to let your digital recorder record …
… on a particular date,
… on particular weekdays,
… every day from Monday to Friday,
… every day from Monday to Saturday,
… every day from Monday to Sunday,
… from a TV or radio channel that can be freely selected from the channel lists,
… at a particular time.



- Select "**Timer**" in the "**Main Menu**" with ▼/▲ and press **OK** to confirm.

- Select timer position (**Timer 1…30**) with ▼/▲ and press **OK** to confirm.
  – The current date is displayed.

ENGLISH


TIMER
Date Prog Start Stop
Timer 1 22/07 TV 0001 22:00 – 23:00
Timer 2 Mon TV 0012 17:15 – 18:00
Timer 3 Mo – Fr 0008 18:45 – 19:00
Timer 4 Mo – Su RA 0001 06:00 – 08:00
Timer 5 Mo – Sa TV 0006 20:00 – 20:15
Timer 6 24/ 07 - - - - - - --:-- – --:--
Pro Sieben
Daily
End
Back

- Use ▼/▲ or **0 ... 9** to set the day of recording. Move the cursor on (month) and use ▼/▲ or **0 ... 9** to set the month.
  – Instead of the date you can set:
  Mo – Monday
  Tu – Tuesday
  We – Wednesday
  Th – Thursday
  Fr – Friday
  Sa – Saturday
  Su – Sunday
  Mo–Fr – Monday to Friday
  Mo–Sa – Monday to Saturday
  Mo–Su – Monday to Sunday

- Press ◀/▶ to move the cursor on (**Prog**),
  – use ▼/▲ to activate the desired channel list (TV, radio, list of favourites).
  – Move the cursor on with ◀/▶ and use ▼/▲ or **0 ... 9** to select the preset channel. The channel name is displayed in the menu.
- Use ◀/▶ to move the cursor on (**Start**/**Stop**) and use ▼/▲ or **0 ... 9** to set the beginning of the recording or the end of the recording.
- Make your entries and press **OK** to confirm.

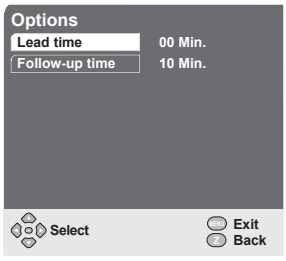
Example:

Timer 2:
The device records from channel no. 0012 from the TV channel list every Monday from 17:15 – 18:00.

- To delete entries of an active timer (white background): press the (**red**) button.
- To return to previous menu: press the **Z** button.
- To finish your setting: press **MENU**.
  – The digital recorder records the specified programme at the set time.

10.4 Setting (lead time / follow-up time) options

This menu enables the individual shifting of the actual switch-on and switch-off times in both directions (lead time and follow-up time), regardless of the preset switch-on and switch-off times.



- To activate the function "**Options**" in the "**Timer**" menu: press the (**blue**) button.
- Use ▼/▲ to select "**Lead time**" or "**Follow-up time**" and use ◀/▶ to set the forward or backward time (0 … 60 minutes).
- To return to previous menu: press the **Z** button.
- To finish your setting: press **MENU**.

10.5 Ending the active timer

Once the timer starts a recording, the selection of channels is locked.

- To prematurely stop the timer recording: press the (**red**) button for approx. 3 seconds.

10.6 Deleting a timer position

- Use ▼/▲ to select the timer position to be deleted.
- Press the (**red**) button.

ENGLISH

11 Recording / playback functions

The technology used for this digital recorder enables the simultaneous recording of a SAT programme and playing of a recorded programme. This procedure is used for the time shift.
Time shift means that you can record a programme and start to play it from the beginning e.g. delayed in time by 30 minutes **while it is still being recorded**. Another option for using the time shift is e.g. the following situation:
You are watching a film and the telephone rings. You now switch on "time shift" and when you come back you can continue to watch the film from where you were interrupted.

11.1 Recording

The saved programmes are stored in the "**Archives**".

Recording a live programme

You wish to record a programme that is just live on TV.

- Press the (**red**) record button.

Setting the recording time

- Press the (**red**) record button again.

- Press the (**red**) record button repeatedly to set the length of the recording in steps of 30 minutes from 00:30 … 06:00 hours.

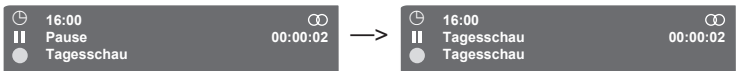
Ending the recording

- To stop the recording, press the (**red**) button for approx. 3 seconds.

Time shift recording

You are watching a programme, you are interrupted and wish to continue to watch the programme from the time of interruption.

- Press the Pause button ❚❚ .
  – The picture on the screen is "frozen" (freeze frame).



- To start playing the time shift recording at this point: press Pause ❚❚ or Playback ▶ .

  Note: Press the button for fast forward ▶▶. Once the end of the time shift recording is reached, the programme is played.

- To end the delayed recording: press the (**red**) button for approx. 3 seconds.

Recording with the timer

You can find more information on programming recordings with the timer in the chapter "**Timer functions**", page 29.

11.2 Playback

You have the following playback options:
– "Time shift" (see chapter "Time shift recording")
– Playback of saved programmes while another programme is being recorded (Archives)
– Interference-free freeze frame
– Fast forward and reverse in 5 stages with picture

Playback from the "Archives"

You can play stored programmes from the "**Archives**" even while you are recording.

- To open the "**Archives**": press **LIST**.
  – Any programmes that you have not yet seen are identified in the inset picture by "**New**".
- Use ◀/▶ and ▼/▲ to select the desired recording.
  – To call up information on the content of this recording: press the **EPG** button.
- Press **OK** to confirm.
  – The recording is displayed as inset picture in the preview window.
- To switch to large screen: press Playback ▶.
  – The "**Archives**" menu disappears from the screen.

ENGLISH

Freeze frame playback

- Play recording.
- Press the Pause button ❚❚.

Resuming playback

- Press Pause button ❚❚ again or press Playback ▶.

Fast forward / rewind

- Press the forward or rewind button.
  - You can select Forward ▶▶ or Rewind ◀◀ functions in 5 stages by repeatedly pressing the corresponding button.
- To end the function: press the Stop ■, Pause ❚❚ or Playback button ▶.

Ending playback

- To stop playing: press the Stop button ■.
  - When this recording is played again, it is continued at this point.
- To end playback: press the Stop button ■ again.
  - When this recording is played again, it is continued at the beginning.

11.3 Information on current operation

- To briefly display information on the current activities of the digital recorder:
  Press the **i** button.

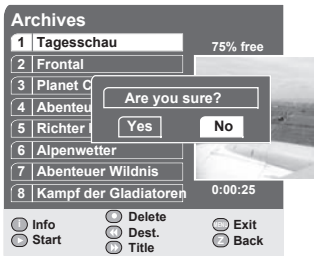
Example:
– Recording a programme
– Simultaneous playback of another recording

The message shows …
– the current time,
– the selected audio type,
– the function "Playback ▶" with the title of the recording and how long it is,
– the function "Record ●" with the title of the programme

11.4 Editing the "Archives"

You can only edit the "**Archives**", if recording and playback are not active. A current recording is displayed - with reference to the programme - at the top of the inset picture with "**Record**"

Moving recordings



- Open the "**Archives**" with **LIST**.
- Select the recording to be moved with ▼/▲ and press the **(green)** button to highlight it.
- Any other recordings are selected with ▼/▲.

- Press the **(green)** button to confirm the selected recordings.
- Use ▼/▲ to select the line (recording), **in front of** which the highlighted recordings are to be inserted.
- To move recordings: press the **(green)** button.
- In the security query that appears press ◀/▶ to select "**Yes**" and press **OK** to confirm.
  – The highlighted recordings are moved.
- To finish your setting: press **MENU**.

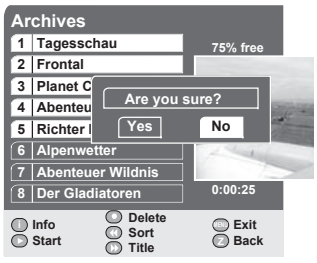
Renaming recordings

You can rename recordings or change their titles e.g. if a name is used twice. For this purpose the numbers **1 ... 0** on the remote control are assigned to groups of letters and special characters.

- Open the "**Archives**" with **LIST**.
- Select the recording to be renamed with ▼/▲ and ◀/▶ and press the **(yellow)** button to highlight it.
- In the menu that appears, delete letters from the name or delete the name of the recording: use ◀/▶ to place the cursor to the right of the letter to be deleted and press the (**red**) button ● or press it repeatly.
- Use **1 ... 0** to enter the new name of the recording.
  – Press the corresponding button as many times as the number of the position of the letter to be entered in the group of letters (e.g. for the letter " **s** " press button **7** four times).
  – The cursor control button ▶ is for using either capitals or small letters.
- Press **OK** to confirm your entries.
- To finish your setting: press **MENU**.

ENGLISH

11.5 Deleting a recording



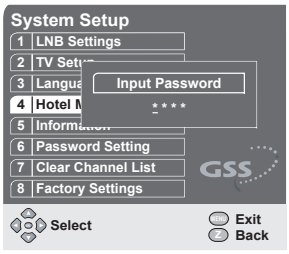
- Use ▼/▲ to select the recording to be deleted.
- Press the (**red**) button.
- Select any more recordings to be deleted with ▼/▲.
  – Recordings to be deleted are displayed in red.
- Press the (**red**) button.
- Use ◀/▶ to select "**Yes**" in the security query that appears and press **OK** to confirm.
  – The highlighted recordings are deleted.
- To finish your setting: press **MENU**.

12 Special functions

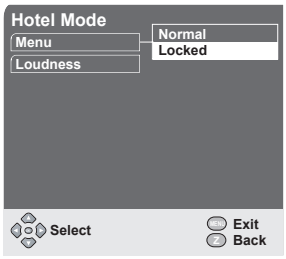
12.1 Hotel mode

– The "**Hotel Mode**" menu is for locking all access to the menus and limiting the volume to a maximum level.
– The default password is "**0 0 0 0**".

12.1.1 Locking the menu

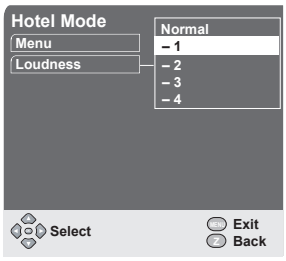


- Use ▼/▲ in the main menu to select "**System Setup**" and press **OK** to confirm.
- Use ▼/▲ to activate "**Hotel Mode**" and press **OK** to confirm.
- Enter the 4-digit password.



- In the "**Hotel Mode**" menu confirm "**Menu**" with **OK** or select "**Menu**" with ▼/▲ and press **OK** to confirm.
- Use ▼/▲ to activate "**Locked**" and press **OK** to confirm.
- To save and finish your setting: press **MENU**.

12.1.2 Limiting the volume



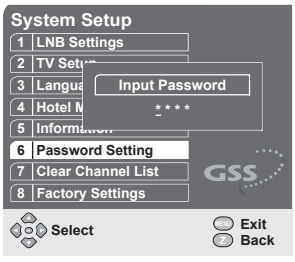
- Use ▼/▲ in the main menu to select "**System Setup**" and press **OK** to confirm.
- Use ▼/▲ to activate "**Hotel Mode**" and press **OK** to confirm.
- Enter the 4-digit password.
- Use ▼/▲ in the "**Hotel Mode**" menu to select "**Loudness**" and press **OK** to confirm.
- Use ▼/▲ to set the desired volume ("**Normal**" … "**– 4**") and press **OK** to confirm.
- To save and finish your setting: press **MENU**.

12.1.3 Removing the menu lock

- Press the **Menu** button for approx. 5 seconds.
- Enter the 4-digit password.
- In the main menu that appears use ▼/▲ to select "**System Setup**" and press **OK** to confirm.
- Use ▼/▲ to activate "**Hotel Mode**" and press **OK** to confirm.
- Enter the 4-digit password.
- Confirm "**Menu**" in the "**Hotel Mode**" menu with **OK** or select "**Menu**" with ▼/▲ and press **OK** to confirm.
- Use ▼/▲ to activate "**Normal**" and press **OK** to confirm.
- To save and finish your setting: press **MENU**.

12.2 Changing the password

The default password is "**0 0 0 0**". We recommend that you replace it with your own personal password.

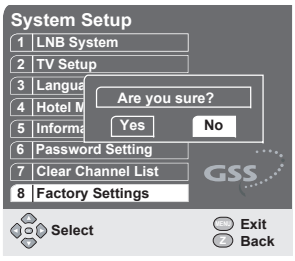


- Use ▼/▲ in the main menu to select "**System Setup**" and press **OK** to confirm.
- Use ▼/▲ to activate "**Password Setting**" and press **OK** to confirm.
- Enter the current password with **0 … 9** and then enter the new password.
- Enter the new password again to confirm it.
- To save and finish your setting: press **MENU**.

ENGLISH

12.3 Restoring the factory settings

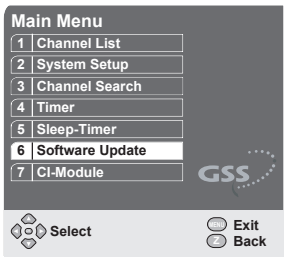
Note:
With this function you can delete all your own settings including the lists of favourites and reset the digital recorder to its original state.

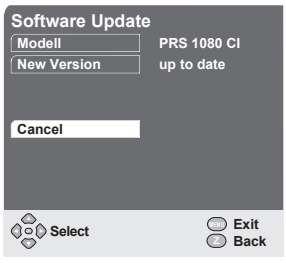


- Use ▼/▲ in the main menu to select "**System Setup**" and press **OK** to confirm.
- Use ▼/▲ to activate "**Factory Settings**" and press **OK** to confirm.
- Use ◀/▶ to select "**Yes**" and press **OK** to confirm.
  – All your settings are deleted.
- To return to previous menu: press the **Z** button.
- To finish your setting: press **MENU**.

12.4 Updating software

The software for the digital recorder is provided by the Astra 19.2° East satellite. The digital recorder is designed so that you can update its operating software and certain channel information directly using this satellite.





- Select "**Software Update**" in the main menu with ▼/▲ and press **OK** to confirm.
  – The digital recorder starts the search for new operating software and then checks whether the software used in the digital recorder needs to be updated.

    This process may take several minutes.
    Please wait until the search is finished. The information received on the available files and versions is displayed in the "**Software Update"** menu ("**New Version**", e.g. "**10**" or "**up to date**").

- If a "**New Version**" is displayed (e.g. "**10**"), press **OK** to start the software update.
  – Display shows: "**Search... (-15 min.)**".
    A thin yellow bar displays the progress of scan and download. A wide yellow bar displays the status of the updates.

Note:
– You can cancel the download at any time with **OK** or **Z**.
– An interruption during the downloading process (for example by pulling out the mains plug) can damage the operating software of the digital recorder!

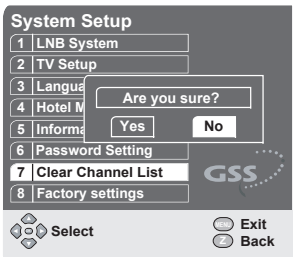
– After updating the software, the recorder switches to preset channel 1.

Note:

In exceptional cases, the software can be updated using a PC via "**SOFTWARE/MOUSE**" RS232 interface. You can find the required software and the corresponding instructions on the Internet under: **http://www.gss.tv**.

12.5 Deleting channel lists

You can completely delete channels from the channel lists and lists of favourites.



- Use ▼/▲ in the main menu to select "**System Setup**" and press **OK** to confirm.
- Use ▼/▲ to activate "**Clear Channel List**" and press **OK** to confirm.
- Use ◀/▶ to select "**Yes**" and press **OK** to confirm.
- To finish the procedure: press **MENU**.

ENGLISH

13 Information

13.1 Displaying information on reception of channels

- Use ▼/▲ in the main menu to select "**Channel List**" and press **OK** to confirm.
- Use ▼/▲ to select a channel and press **OK** to confirm.
- Display and hide reception information with **i**.

Note:

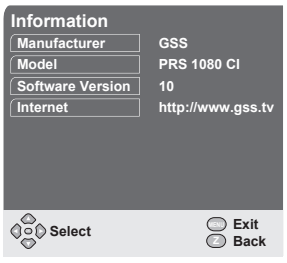
– The displayed signal level not only depends on the settings of your receiver unit, but also on the channel that is currently active.
Remember this when aligning your antenna using the signal level display.

- To exit the menu: press **MENU**.

13.2 Querying device information

The "**Information"** menu contains information …

– on the manufacturer of the product
– on the product designation
– on the software version
– on the Internet address of the manufacturer



- Use ▼/▲ in the main menu to select "**System Setup**" and press **OK** to confirm.
- Use ▼/▲ to select "**Information**" and press **OK** to activate.
- To exit the menu: press **MENU**.

13.3 Technical data

This product complies with the following EU directives:
73/23/EEC and 89/336/EEC.
It complies with the standard required for CE labelling
EN 55013: 1990 incl. A12: 1994, A13: 1996, A14: 1999,
EN 55020: 1994 incl. A11: 1996, A12, A13, A14: 1999,
EN 60065: 1998, EN 61000-3-2: 1995 incl. A14: 2000,
EN 61000-3-3: 1995.

CE

TV channels/radio stations:	3000 TV / 1500 radio
Number of satellite levels:	Max. 16
Reception range:	950 … 2150 MHz
Input symbol rate:	1 … 45 megasymbols per second
SAT-IF input:	1 F-connector
LNB power supply:	13 V / 18 V, max. 300 mA
LNB switching signal:	0 / 22 kHz, 0.5 V_{pp} Tone burst
DiSEqC:	DiSEqC 1.0 control
OSD:	Display and programming functions in 5 languages (German, English, Czech, Turkish, Spanish)
Search:	Automatic / manual
Last station memory:	Switches on with the last station selected
Teletext:	Teletext decoder installed, supports the teletext of the television set
Hard disk:	80 GB
Software download:	Via satellite Astra 19.2° East
Mains adapter:	12 … 24 V DC
Power consumption:	Operation: approx. 12 W without LNB and common interface, stand by: approx. 0.5 W
Ambient temperature:	+5 °C … +40 °C
Dimensions (W x H x D):	219 x 53.5 x 119 mm

13.4 Warranty

Our devices are developed, manufactured and tested according to the latest technological standards.
If a malfunction should nevertheless occur, please consult your specialist dealer or contact the point of sale where you purchased the device. Therefore always keep your sales receipt.
Warranty claims cannot be made directly to GSS - Grundig SAT Systems GmbH!

13.5 Troubleshooting

Please observe the following information first in the event of an error. If you are unable to rectify the fault using the information given here, please contact your local dealer or service specialist. Never under any circumstances attempt to repair the digital recorder yourself. That would invalidate any warranty claims.

Problem	Possible cause	Remedy
No function, no operation indication	Mains adapter connected incorrectly	Connect the mains adapter correctly
	Device switched off	Switch on the device with remote control
No picture	The Euro-AV cable is not connected correctly	Connect Euro-AV cable correctly
	Incorrect settings in the "**TV setup**" menu	Set the menu
No sound	The sound is off (muted)	End muting
	The Euro-AV cable is not connected correctly	Connect Euro-AV cable correctly
	Recorder volume is set too low	Set higher volume
Display: "**No reception**"	Satellite antenna not installed correctly	Install satellite antenna correctly
	Satellite cable damaged	Replace satellite cable
	Incorrect settings in the "**LNB system**" menu	Set the menu correctly
Remote control does not work	The batteries are inserted incorrectly	Insert batteries correctly. Make sure the polarity is correct.
	The batteries are flat	Insert new batteries
	The remote control is not directed at the infrared sensor of the SAT mouse	Point the remote control at the infrared sensor. Incorrect SAT level selected.
The time is not displayed correctly	Deviation from local time	Correct the deviation (offset)
Interference of picture from stations with a frequency of approx. 12480 MHz	The interference may be caused by DECT wireless telephones near the recorder	Move any DECT wireless telephones away from the range of the recorder
Digital recorder makes noises on being switched on	Fan is starting up	The fan quietens down as soon as the required speed is attained.
The device asks you to input your PIN	Channel or menu are locked	Input your password (PIN) or if necessary contact your dealer

Subject to modifications. Technical data subject to change.

Änderungen vorbehalten. Technische Angaben ohne Gewähr.
Alterations reserved. Technical data E. & O.E.

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